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1 The evolution of virtualization

Kirk L. Kroeger

 March 2009 **Communications of the ACM**, Volume 52 Issue 3

Publisher: ACM [Request Permissions](#)
Full text available: Digital Edition, HTML (15.44 KB), PDF (1.35 MB) [Additional Information](#)
Bibliometrics: Downloads (6 Weeks): 143, Downloads (12 Months): 2948, Downloads (All Time): 10,000

Virtualization is moving out of the data center and making inroads with

2 Xen and the art of virtualization

 Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex H.
 December 2003 **SOSP '03: Proceedings of the nineteenth ACM symposium**
Publisher: ACM [Request Permissions](#)
Full text available: PDF (168.76 KB) [Additional Information: full citation](#)
Bibliometrics: Downloads (6 Weeks): 238, Downloads (12 Months): 2075, Downloads (All Time): 10,000

Numerous systems have been designed which use virtualization to subdivide specialized hardware, or cannot support commodity operating systems.

Keywords: hypervisors, paravirtualization, virtual machine monitors

Also published in:


 December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

3 A feather-weight virtual machine for windows applications

 Yang Yu, Fanglu Guo, Susanta Nanda, Lap-chung Lam, Tzi-cker Chiueh
 June 2006 **VEE '06: Proceedings of the 2nd international conference on**
Publisher: ACM [Request Permissions](#)
Full text available: PDF (192.18 KB) [Additional Information: full citation](#)
Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 150, Downloads (All Time): 10,000

Many fault-tolerant and intrusion-tolerant systems require the ability to leaving permanent damages. Virtual machine technology meets this requirement.

Keywords: copy on write, mobile code security, namespace virtualization




-  **Information flow control for standard OS abstractions**
 Maxwell Krohn, Alexander Yip, Micah Brodsky, Natan Cliffer, M. Frans Kaas
 October 2007 **SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating Systems Review**
Publisher: ACM  Request Permissions
 Full text available:  FLV (29:43 MIN),  MP3 (12.48 MB),  PDF (321.86 KB) [Additional Information](#)
Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 197, Downloads

Decentralized Information Flow Control (DIFC) is an approach to security between the pieces of an application and the outside world. As applied to

Keywords: DIFC, decentralized information flow control, endpoints, reference



Also published in:

October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6

- 5 **Confining windows inter-process communications for OS-level virtualization**
 Zhiyong Shan, Yang Yu, Tzi-cker Chiueh
 March 2009 **VDTS '09: Proceedings of the 1st EuroSys Workshop on Virtualization**
Publisher: ACM  Request Permissions
 Full text available:  PDF (320.75 KB) [Additional Information: full citation](#)
Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 103, Downloads

As OS-level virtualization technology usually imposes little overhead on the choice for building intrusion/fault tolerant applications that require reduced

Keywords: IPC confinement, dependable system, virtual machine

- 6 **Container-based operating system virtualization: a scalable, high-performance**
 Stephen Soltesz, Herbert Pötzl, Marc E. Fluczynski, Andy Bavier, Larry Peters
 June 2007 **EuroSys '07: Proceedings of the 2nd ACM SIGOPS/EuroSys Symposium**
Publisher: ACM
 Full text available:  PDF (863.93 KB) [Additional Information: full citation](#)
Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 439, Downloads


Hypervisors, popularized by Xen and VMware, are quickly becoming common there are scenarios that require system virtualization with high degrees of

Keywords: Linux-VServer, Xen, alternative, container, hypervisor, open

Also published in:

June 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 3

- 7 **HyperSpector: virtual distributed monitoring environments for secure**
 Kenichi Kourai, Shigeru Chiba
 June 2005 **VEE '05: Proceedings of the 1st ACM/USENIX International Workshop on Virtual Execution Environments**
Publisher: ACM  Request Permissions
 Full text available: [Full text available](#) [Additional Information](#)

 Pdf (262.72 KB)

[Full citation](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 100, Downloads

In this paper, a virtual distributed monitoring environment called *Hyper* distributed computer systems. While multiple intrusion detection system

Keywords: distributed IDS, inter-VM monitoring, virtual machine, virtual


8 Strategic decisions on technology selections for facilitating a network ownership theories



Kimfong Lei, Phillip T. Rawles

October 2003 **CITC4 '03:** Proceedings of the 4th conference on Information

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (407.50 KB)

[Additional Information:](#) [Full citation](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 126, Downloads

This paper addresses the selection of technologies that provide each student machine. The authors investigated different combinations of enabling technologies

Keywords: VMware, course development, curriculum, end-user computing, IT, networking, operating systems, systems software


9 Network virtualization: a view from the bottom



Jorge Carapinha, Javier Jiménez

August 2009 **VISA '09:** Proceedings of the 1st ACM workshop on Virtualization

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (741.80 KB)

[Additional Information:](#) [Full citation](#)

Bibliometrics: Downloads (6 Weeks): 91, Downloads (12 Months): 344, Downloads

The interest in network virtualization has been growing steadily among researchers. Virtualization opens up new possibilities for the evolution path to the Future

Keywords: network virtualization, resource management

10 Virtual radio: a framework for configurable radio networks

Joachim Sachs, Stephan Baucke

November 2008 **WICON '08:** Proceedings of the 4th Annual International Conference

Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications)




Full text available:  Pdf (510.59 KB)

[Additional Information:](#) [Full citation](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 44, Downloads



Network virtualization has recently been proposed for the development of a principle for a Future Internet. In this paper we describe the background

Keywords: configurable radio networks, future internet, network virtualization

-  **DaVinci: dynamically adaptive virtual networks for a customized inter**
 Jayue He, Fuli Zhang-Shen, Ying Li, Cheng-Yen Lee, Jennifer Rexford, Mun
 December 2008 **CoNEXT '08: Proceedings of the 2008 ACM CoNEXT Confer**
Publisher: ACM  [Request Permissions](#)
 Full text available:  Pdf (270.30 KB) [Additional Information: full citati](#)
Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 75, Downlo

Running multiple virtual networks, customized for different performance over a shared substrate. Despite being simple, a static division of resou

12 Virtual private caches

-  Kyle J. Nesbit, James Laudon, James E. Smith
 June 2007 **ISCA '07: Proceedings of the 34th annual international sym**
Publisher: ACM
 Full text available:  Pdf (452.49 KB) [Additional Information: full citati](#)
Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 157, Downl




Virtual Private Machines (VPM) provide a framework for Quality of Servi microarchitecture mechanisms that allow shares of hardware resources

Keywords: chip multiprocessor, performance isolation, quality of servic




Also published in:

June 2007 **SIGARCH Computer Architecture News** Volume 35 Issue 2

13 Communications of the ACM: Volume 52 Issue 3

-  March 2009 Communications of the ACM
Publisher: ACM
 Full text available:  Digital Edition ,  Pdf (7.04 MB) [Additional Information: full citation](#)
Bibliometrics: Downloads (6 Weeks): 299, Downloads (12 Months): 2496, Dov


14 Towards automated provisioning of secure virtualized networks


-  Serdar Cebuk, Chris J. Dalton, HariGovind Ramasamy, Matthias Schunter
 October 2007 **CCS '07: Proceedings of the 14th ACM conference on Comp**
Publisher: ACM  [Request Permissions](#)
 Full text available:  Pdf (325.55 KB) [Additional Information: full citati](#)
Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 228, Downl

We describe a secure network virtualization framework that helps realiz enhanced variant of virtualized network zones. The framework allows gr

Keywords: automated security provisioning, network security, network

15 VPFS: building a virtual private file system with a small trusted comp

-  Carsten Weinhold, Hermann Härtig
 April 2008 **Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys**
Publisher: ACM
 Full text available: [Additional Information:](#)

 Pdf (386.31 KB)

[full citation](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 141, Downloads

In this paper we present the lessons we learned when developing VPFS, amount of trusted storage and an untrusted legacy file system residing

Keywords: legacy reuse, secure file system, virtualization

Also published in:

April 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 4


16 [March of the \(virtual\) machines: past, present, and future milestones](#)

Alessio Gaspar, Sarah Langevin, William D. Armitage, Matt Rideout

May 2008

Journal of Computing Sciences in Colleges, Volume 23 Iss

Publisher: Consortium for Computing Sciences in Colleges


Full text available:  Pdf (50.19 KB)

[Additional Information: full citation](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 108, Downloads


Many courses in the computing curricula can benefit from hands-on pedagogy (learning) in the form of laboratory components associated with the lecture

17 [Laboratory experiments for network security instruction](#)

 José Carlos Brustoloni

December 2006 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM 

Full text available:  Pdf (131.27 KB)

[Additional Information: full citation](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 289, Downloads

We describe a sequence of five experiments on network security that can be performed by a programmer, and system administrator. Unlike experiments described in the literature


Keywords: Certificate, IPsec, SSH, SSL, VPN, certifying authority, countermeasures, fingerprinting, firewall, man-in-the-middle, password, port scanning, security

18 [Towards high performance virtual routers on commodity hardware](#)

 Norbert Egi, Adam Greenhalgh, Mark Handley, Michael Hoerd, Felipe Huici

December 2008 **CoNEXT '08: Proceedings of the 2008 ACM CoNEXT Conference**

Publisher: ACM 


Full text available:  Pdf (195.68 KB)

[Additional Information: full citation](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 80, Downloads


Modern commodity hardware architectures, with their multiple multi-core processors, offer tremendous power. In this paper, we study performance limitations when

19 [On the design of scalable, self-configuring virtual networks](#)

 David Isaac Wolinsky, Yonggang Liu, Pierre St. Juste, Girish Venkatasubramanian

November 2009 **SC '09: Proceedings of the Conference on High Performance Computing**



Publisher: ACM 

Full text available:  Pdf (400.61 KB)

Additional Information: full citati

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 136, Downl

Virtual networks (VNs) provide methods that simplify resource manager applications in distributed systems, by enabling global addressability of

20 A cost-oriented approach for infrastructural design Danilo Ardagna, Chiara Francalanci, Marco TrubianMarch 2004 **SAC '04: Proceedings of the 2004 ACM symposium on Appl****Publisher:** ACM  Request PermissionsFull text available:  Pdf (186.95 KB)

Additional Information: full citati

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 51, Downloa

The selection of a cost-minimizing combination of hardware and network complex design problem with multiple degrees of freedom. Decisions m

Keywords: cost minimization, tabu-search

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